



December 10, 2015

Alison Thompson Virginia DEQ – Northern Regional Office 13901 Crown Court Woodbridge, VA 22193

RE: Rush River Wastewater Treatment Plant Permit Application - VA0091651

Dear Alison,

Enclosed please find the permit application forms for the above referenced facility. Should you have any questions or comments please feel free to contact me at (540) 825-6660.

Best regards,

Valeria Compton, Administrative Assistant

**Environmental Services Division** 

Enclosures

# **VPDES Permit Application Addendum**

1. Entity to whom the permit is to be issued: Town of Washington
Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.
2. Is this facility located within city or town boundaries? Yes No
3. Provide the tax map parcel number for the land where the discharge is located. 20-11
4. For the facility to be covered by this permit, how many acres will be disturbed during the next
five years due to new construction activities? None
5. What is the design average effluent flow of this facility? 0.06 MGD
For industrial facilities, provide the max. 30-day average production level, include units:
In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes No If "Yes", please identify the other flow tiers (in MGD) or production levels:
Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?
6. Nature of operations generating wastewater:
Commercial and residential
90 % of flow from domestic connections/sources
Number of private residences to be served by the treatment works:
% of flow from non-domestic connections/sources
7. Mode of discharge:  Continuous Intermittent Seasonal
Describe frequency and duration of intermittent or seasonal discharges:
8. Identify the characteristics of the receiving stream at the point just above the facility's discharge point:
X Permanent stream, never dry
Intermittent stream, usually flowing, sometimes dry
Ephemeral stream, wet-weather flow, often dry
Effluent-dependent stream, usually or always dry without effluent flow
Lake or pond at or below the discharge point
Other:
·
9. Approval Date(s):
O & M Manual 2009 Sludge/Solids Management Plan N/A
Have there been any changes in your operations or procedures since the above approval dates? Yes 🔲 No 🔀

# FACILITY NAME: Rush River Wass-water Treatment Plant VPDES PERMIT NUMBER: VA0091651 VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

# SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

determ	ine which	sections to fill out.		
1.	All applicants must complete Section A (General Information).			
2.	Will thi	s facility generate sewage sludge? X Yes No		
	Will thi	s facility derive a material from sewage sludge?Yes _X_No		
	If you a Derived	nswered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material From Sewage Sludge).		
3.	Will thi	s facility apply sewage sludge to the land?Yes _X_No		
	Will sev	wage sludge from this facility be applied to the land? Yes X No		
	If you a	If you answered No to both questions above, skip Section C.		
	If you ar	nswered Yes to either, answer the following three questions:		
	a.	Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? YesNo		
	b.	Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?YesNo		
	c.	Will sewage sludge from this facility be sent to another facility for treatment or blending?YesNo		
	If you ar	nswered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).		
	If you an	swered Yes to a, b or c, skip Section C.		
1.	Do you o	own or operate a surface disposal site?Yes _X_No		
	If Yes, complete Section D (Surface Disposal).			

# All applicants must complete this section.

1.	Facil	ity Information.
	a.	Facility name: Rush River Wastewater Treatment Plant
	b.	Contact person:John Sullivan
		Title: Mayor
		Phone: (540 ) <u>675-3128</u>
	c.	Mailing address:
		Street or P.O. Box: 485 Gay Street
	1	City or Town: Washington State: VA Zip: 22747
	d.	Facility location:
		Street or Route #: 564 Warren Ave
		County: Rappahannock
	۵	City or Town: Washington State: VA Zip: 22747
	e. f.	Is this facility a Class I sludge management facility? Yes X No
	g.	Facility design flow rate: 0.06 mgd Total population served: 200+
	h.	Indicate the type of facility:
	11,	X Publicly owned treatment works (POTW)
		Privately owned treatment works
		Federally owned treatment works
		Blending or treatment operation
		Surface disposal site
		Other (describe):
2		
2.	Applic	cant Information. If the applicant is different from the above, provide the following:
	a.	Applicant name: Environmental Systems Service, Ltd.
	b.	Mailing address:
		Street or P.O. Box: 218 North Main Street
		City or Town: Culpeper State: VA Zip: 22701
	c.	Contact person: <u>Donald Hearl</u>
		Title: Vice President
		Phone: (540) 825-6660
	d.	Is the applicant the owner or operator (or both) of this facility?
	_	owner X operator
	e.	Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)  facility X applicant
		facility applicant
3.	Permit	Information.
	a.	Facility's VPDES permit number (if applicable): <u>VA0091651</u>
	b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received
		or applied for that regulate this facility's sewage sludge management practices:
		Permit Number: Type of Permit:
4.	Indian	Country Does any generation treatment of
	facility	Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this occur in Indian Country?YesNo If yes, describe:
	Lucinty	
		(3 12/17/15

FACILITY NAME: Rush River Wassewater Treatment Plant VPDES PERMIT NUMBER: VA0091651 Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility: SEE ATTACHMENT 1 Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to b. the applicant within 1/4 mile of the property boundaries. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that 6. will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction. SEE ATTACHMENT 2 Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge 7. generation, treatment, use or disposal the responsibility of a contractor? X Yes No If yes, provide the following for each contractor (attach additional pages if necessary). Name: Butler and Eicher Mailing address: Street or P.O. Box: 10607 James Madison Highway City or Town: Bealton State: <u>VA</u> Zip: \_22712 Phone: (540) <u>347-2274</u> Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge: Federal #651319024 If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s). Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for 8. the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old. N/A POLLUTANT **CONCENTRATION** SAMPLE ANALYTICAL DETECTION LEVEL (mg/kg dry weight) **METHOD** DATE FOR ANALYSIS Arsenic Cadmium Chromium Copper Lead Mercury Molybdenum Nickel Selenium Zinc Certification. Read and submit the following certification statement with this application. Refer to the instructions to 9. determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting: Section A (General Information) Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)

Section D (Surface Disposal)

Section C (Land Application of Bulk Sewage Sludge)

# FACILITY NAME: Rush River Wastewater Treatment Plant

VPDES PERMIT NUMBER: VA0091651

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title John Sullivan, Mayor

Signature Date Signed

Telephone number (540) 675-3128

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

# FACILITY NAME: Rush River Wastewater Treatment Plant SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1.	Amount Generated On Site.  Total dry metric tons per 365-day period generated at your facility: 9.2 dry metric tons			
2.	uispo	unt Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or osal, provide the following information for each facility from which sewage sludge is received. If you receive ge sludge from more than one facility, attach additional pages as necessary. N/A  Facility name:  Contact Person:  Title:  Phone ( )		
	c.	Mailing address:		
		Street or P.O. Box: City or Town: State: Zip:		
	d.	Facility Address: (not P.O. Box)		
	e.	Total dry metric tons per 365-day period received from this facility:		
	f.	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:		
3.	Treati	ment Provided at Your Facility.		
	a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class AClass B X Neither or unknown		
	b.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:		
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility?  Option 1 (Minimum 38 percent reduction in volatile solids)  Option 2 (Anaerobic process, with bench-scale demonstration)  Option 3 (Aerobic process, with bench-scale demonstration)  Option 4 (Specific oxygen uptake rate for aerobically digested sludge)  Option 5 (Aerobic processes plus raised temperature)  Option 6 (Raise pH to 12 and retain at 11.5)  Option 7 (75 percent solids with no unstabilized solids)  Option 8 (90 percent solids with unstabilized solids)  X None or unknown		
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:		
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above:		
4.	Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One of Vector Attraction Reduction Options 1-8 (EQ Sludge). N/A			
	(If sewa	ige sludge from your facility does not meet all of these criteria, skip Question 4.)		
	a.	Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: dry metric tons		
	b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away?  _YesNo		

FACI	ACILITY NAME: Rush River Wastewater Treatment Plant  Sale or Give-Away in a Bag or Other Container for August 11 June 11 June 12 June		
5.	or Give-Away in a Bag or Other Container for Application to the Land. N/A elete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this		
	question is severed as covered in Question 4.1		
	a.	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility	
		201 Said of Mive away 101 application to the land.	
	b.	Attach, with this application, a copy of all labels or notices that accompany the source study of the sour	
		given away in a bag or other container for application to the land.	
6.	Shipm	nent Off Site for Treatment or Blending.	
	does no	lete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question	
		11 V TO THE STATE OF THE WILL CALL TO A LANGE WHICH WILL AND THE STATE OF THE STATE	
	a.	l in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.)  Receiving facility name: Fauquier County WSA – Remington WWTP	
	b.	Facility contact: Cheryl St. Amant	
		Title: <u>Director of Operations</u>	
		Phone: (540) 349-2092	
	c.	Mailing address:	
		Street or P.O. Box: 12523 Lucky Hill	
	d.	City or Town: Remington State: VA Zip: 22734	
	u.	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: 9.2 dry metric tons	
	e.	tons	
	0.	List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of	
		all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices:	
		Permit Number: Type of Permit:	
		VA0076805 VPDES	
	f.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? X Yes No	
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?	
		Class A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to	
		Aerobic Digestion	
	g.	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the	
		sewage studge: A 168 No	
		Which vector attraction reduction option is met for the sewage sludge at the receiving facility?	
		A Option 1 (William 38 percent reduction in volatile solids)	
		Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration)	
		— Option 4 (Specific oxygen uptake rate for aerobically digested sludge)	
		Option 5 (Aerobic processes plus raised temperature)	
		Option 6 (Raise pH to 12 and retain at 11.5)	
		Option 7 (75 percent solids with no unstabilized solids)	
		Option 8 (90 percent solids with unstabilized solids)	
		None unknown	
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to	
		reduce vector attraction properties of sewage sludge: <u>Aerobic Digestion</u>	
	h.	Does the receiving facility provide any additional treatment or blending not identified in f or g above?	
		103 17 190	
		If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:	
:	i.	If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility	
		to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.  SEE ATTACHMENT 3	

VPDES Sewage Sludge Permit Application Form (Rev 9/14/2012)

SEE ATTACHMENT 3

FAC	ILITY	NAME: Rush River Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0091651			
	j k.	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land?Yes _X_No  If yes, provide a copy of all labels or notices that accompany the product being sold or given away.  Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? _XYesNo. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility.  Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported.  SEE ATTACHMENT 4			
7.	Land	Application of Bulk Sewage Sludge. N/A			
	(Com	plete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4.5 or			
	o, con	npiete Question 7.b, c & d only it you are responsible for land application of sewage sludge.)			
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry metric tons			
	b.	Do you identify all land application sites in Section C of this application?YesNo If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).			
	c.	Are any land application sites located in States other than Virginia?YesNo If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.			
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).			
8.	Surface Disposal. N/A				
		olete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)			
	a.	1 otal dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: dry metric tons			
	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? YesNo			
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.			
	c. d.	Site name or number: Contact person:			
	<b></b>	Title:			
		Phone: ( )			
		Contact is:Site OwnerSite operator			
	e.	Mailing address.			
		Street or P.O. Box:			
	f.	City or Town: State: Zip:  Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal			
		site dry metric tons			
	g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface			
		disposal site:  Permit Number:  Type of Permit:			
		Type of 1 crimit.			
9.		ration. N/A			
	(Compl	ete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)			
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge incinerator: dry metric tons			
	b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?			
		a the first sewage studge from your facility is fired?			

X 1 1 C 1		VPDES PERMIT NUMBER: VA0091651
		YesNo
		If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send
		sewage studge to more than one sewage studge incinerator, attach additional pages as necessary
	c.	Incinerator name or number:
	d.	Contact person:
		Title:
		Phone: ( )
		Contact is:Incinerator OwnerIncinerator Operator
	e.	Mailing address.
		Street or P.O. Box:
		City or Town:State:Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
		incinerator: dry metric tons
	g.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
		firing of sewage sludge at this incinerator:
		Permit Number: Type of Permit:
		Type of Formit.
10.	Dispos	sal in a Municipal Solid Waste Landfill. N/A
	(Comp)	lete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information
	for eac	h municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one
	municij	pal solid waste landfill, attach additional pages as necessary.)
	a.	Landfill name:
	b.	Contact person:
		Title:
		Phone: ( )
		Contact is:Landfill OwnerLandfill Operator
	C.	Mailing address.
	•,	Street or P.O. Box:
		City or Town: State: Zip:
	d.	Landfill location.
	u.	Street or Route #:
		County:
		City or Town: State: Zip:
	e.	Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
	£	dry metric tons
	f.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the
		operation of this municipal solid waste landfill:
		Permit Number: Type of Permit:
	g.	Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9
		VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
		1 esNo
	h.	Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid
		waste Management Regulation, 9 VAC 20-80-10 et seq.? Yes No
	i.	Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill
		be watertight and covered? Yes No
		Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week
		and time of the day sewage sludge will be transported.
		5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

# SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

N/A

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or

Compl	rou p	ewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or rovide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).  n C for every site on which the sewage sludge that you reported in B.7 is land applied.				
1.	Ident	ification of Land Application Site.				
	a.	Site name or number:				
	b.	Site location (Complete i and ii)				
		i. Street or Route#:				
		County:				
		City or Town: State: Zip:				
		ii. Latitude: Longitude:				
		Method of latitude/longitude determination				
		USGS map Filed survey Other				
	c.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable)				
		that shows the site location.				
2.	Owne	er Information.				
	a.	Are you the owner of this land application site?YesNo				
	b.	If no, provide the following information about the owner:				
		Name:				
		Street or P.O. Box:				
		City or Town: State: Zip:				
		Phone: ( )				
3.	Appli	Applier Information:				
	a.	Are you the person who applies, or who is responsible for application of, sewage sludge to this land				
		application site?Yes No				
	b.	If no, provide the following information for the person who applies the sewage sludge:				
		Name:				
		Street or P.O. Box:				
		City or Town:State:Zip:				
		Phone: ( )				
	c.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person				
		who applies sewage sludge to this land application site:				
		Permit Number: Type of Permit:				
4.	Site T	ype. Identify the type of land application site from among the following:				
	Ag	ricultural landReclamation siteForest				
	_	blic contact siteOther. Describe				
		outsi. Belone				
5.		Attraction Reduction.				
	Are an	Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site?				
	Y	esNo If yes, answer a and b.				
	a.	Indicate which vector attraction reduction option is met:				
		Option 9 (Injection below land surface)				
	1	Option 10 (Incorporation into soil within 6 hours)				
	b.	Describe, on this form or on another sheet of paper, any treatment processes used at the land application site				
		to reduce the vector attraction properties of sewage sludge:				

1		(		
FACIL 6.	ITY NA Cumula	ME: Rush River Wastewative Loadings and Remaini	ater Treatment Plant	VPDES PERMIT NUMBER: <u>VA0091651</u>
	(Complete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative pollutant loading			is subject to the cumulative pollutant loading rates
	(CI LIG)	- see mistractions.)		
	a.	site since July 20, 1993?	ascertain whether bulk sewage sludge Yes No	where the sewage sludge subject to the subject to the CPLRs has been applied to this
		If no, sewage sludge subjeted If yes, provide the following	ect to the CPLRs may <u>not</u> be applied to	this site.
		Permitting authority:	ing information.	
		Contact person:		
		Phone:( )		
	b.	Based upon this inquiry, h	nas bulk sewage sludge subject to the C no, skip the rest of Question 6. If yes,	PLRs been applied to this site since July 20,
	c.	Site size, in hectares:	(or	answer questions c - e.
	d.		ormation for every facility other than ye	cours that is sending or has sent sewage sludge
		subject to the CPLRs to th	us site since July 20, 1993. If more that	an one such facility sends sewage sludge to
		this site, attach additional Facility name:	pages as necessary.	
		Facility contact:		
		Title:		
		Phone: ( )		
		Mailing address.		
		Street or P.O. Box:		
		City or Town:	State: Zip:	
	e.		and allotment remaining, in kg/hectare,	for each of the following pollutants:
			Cumulative loading Allotment	remaining
		Arsenic		
		Cadmium		
		Copper		
		Lead		
		Mercury		
		Nickel	***************************************	
		Selenium	****	
		Zinc		
Dy mese q	acations in	7-12 below only if you apply se ay be prepared as attachments ion A.7) who is responsible for	10 INIS IOPM. AKIN the following questions if a	application of sewage sludge. Information required you contract land application to someone else (as
7.	Sludge C paramete	characterization. Use the ta	able below or a separate attachment, pro	ovide at least one analysis for each
		PCBs (mg/kg)		
		pH (S. U.)		
		Percent Solids (%)		
		Ammonium Nitrogen (mg/	ka)	
		Nitrate Nitrogen (mg/kg)	kg)	
		Total Kjeldahl Nitrogen (m	20/kg)	
		Total Phosphorus (mg/kg)	15/ NS)	
		Total Potassium (mg/kg)		
		Alkalinity as CaCO <sub>3</sub> * (mg/l	kg)	
		,	U)	

Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO<sub>3</sub>.

8. Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
  - 1) Water wells, abandoned or operating
  - 2) Surface waters
  - 3) Springs
  - 4) Public water supply(s)
  - 5) Sinkholes
  - 6) Underground and/or surface mines
  - 7) Mine pool (or other) surface water discharge points
  - 8) Mining spoil piles and mine dumps
  - 9) Quarry(s)
  - 10) Sand and gravel pits
  - 11) Gas and oil wells
  - 12) Diversion ditch(s)
  - 13) Agricultural drainage ditch(s)
  - 14) Occupied dwellings, including industrial and commercial establishments
  - 15) Landfills or dumps
  - 16) Other unlined impoundments
  - 17) Septic tanks and drainfields
  - 18) Injection wells
  - 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
  - 1) Maximum and minimum percent slopes
  - 2) Depressions on the site that may collect water
  - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
  - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.
- 10. Landowner Agreement Forms. Provide a properly completed Land Application Agreement Biosolids Form and necessary attachments (attached at end of VPDES Sewage Sludge Permit Application Form) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.
- 11. Ground Water Monitoring.

Are any ground water monitoring data available for this land application site? \_\_Yes \_\_No If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Virginia Field Office 6669 Short Lane Gloucester, VA 23061 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

- d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)
   Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.
  - 1) Soil symbol
  - 2) Soil series, textural phase and slope range
  - 3) Depth to seasonal high water table
  - 4) Depth to bedrock
  - 5) Estimated soil productivity group (for the proposed crop rotation)

# Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

  Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
  - 1). Soil symbol
  - 2). Soil series, textural phase and slope range
  - 3). Depth to seasonal high water table
  - 4). Depth to bedrock
  - 5). Estimated soil productivity group (for the proposed crop rotation)

Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)

Soil pH (std. units)

Cation Exchange Capacity (meq/100g)

Total Nitrogen (ppm)

Organic Nitrogen (ppm)

Ammonia Nitrogen (ppm)

Nitrate Nitrogen (ppm)

Available Phosphorus (ppm)

Exchangeable Potassium (mg/100g)

Exchangeable Sodium (mg/100g)

Exchangeable Calcium (mg/100g)

Exchangeable Magnesium (mg/100g)

Arsenic (ppm)

Cadmium (ppm)

Copper (ppm)

Lead (ppm)

Mercury (ppm)

Molybdenum (ppm)

Nickel (ppm)

Selenium (ppm)

Zinc (ppm)

Manganese (ppm)

Particle Size Analysis or

USDA Textural Estimate (%)

- Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or g. nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- Using a narrative format and referencing any related charts, describe the proposed cropping system. Show h. how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

# SECTION D. SURFACE DISPOSAL

N/A

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

1.	Info	rmation on Active Sewage Sludge Units.
	a.	Unit name or number:
	b.	Unit location
		i. Street or Route#:
		County:
		City or Town: State: Zip:
		ii. Latitude: Longitude:
		Method of latitude/longitude determination
		USGS map Filed survey Other
	C.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is upoveileble)
		that shows the site location.
	d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period: dry metric tons.
	e.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:  dry metric tons.
	f.	Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of
		1 x 10 <sup>-7</sup> cm/sec? Yes No If yes, describe the liner or attach a description.
	g.	Does the active sewage sludge unit have a leachate collection system?YesNo
		If yes, describe the leachate collection system or attach a description. Also, describe the method used for
		leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:
	1.	
	h.	If you answered no to either f or g, answer the following:
		Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface
	i.	disposal site: i es No ii ves, provide the actual distance in meters
	1.	Remaining capacity of active sewage sludge unit, in dry metric tons:  Anticipated clasure date for active sewage sludge unit, in dry metric tons:
		Anticipated closure date for active sewage sludge unit, if known: (MM/DD/YYYY)  Provide with this application a copy of any closure plan developed for this active sewage sludge unit.
2.	Sewag	ge Sludge from Other Facilities.
	Is sew	rage sludge sent to this active sewage sludge unit from any facilities other than yours?YesNo
	II yes,	provide the following information for each such facility, attach additional sheets as necessary
	a.	racinty name:
	ь.	Facility contact:
		Title:
		Phone: ( )
	c.	Mailing address. Street or P.O. Box:
	d.	City or Town: State: Zip:
	u.	List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other
		Received, state of local permits that regulate the facility's sewage sludge management practices:
		Permit Number: Type of Permit:
	e.	Which class of nathogen reduction is a Line 11 C
	٠.	Which class of pathogen reduction is achieved before sewage sludge leaves the other facility? Class A Class B Neither or unknown
	f.	
		Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to reduce pathogens in sewage sludge:

Which vector attraction reduction option is achieved before sewage sludge leaves the other facility? g. Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) \_\_\_ Option 3 (Aerobic process, with bench-scale demonstration) \_\_\_ Option 4 (Specific oxygen uptake rate for aerobically digested sludge) \_\_\_ Option 5 (Aerobic processes plus raised temperature) \_\_\_ Option 6 (Raise pH to 12 and retain at 11.5) \_\_\_ Option 7 (75 percent solids with no unstabilized solids) \_\_\_ Option 8 (90 percent solids with unstabilized solids) \_\_ None or unknown Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce h. vector attraction properties of sewage sludge: Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by i. the other facility that are not identified in e - h above: 3. Vector Attraction Reduction. Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit? \_ Option 9 (Injection below land surface) \_\_\_ Option 10 (Incorporation into soil within 6 hours) Option 11 (Covering active sewage sludge unit daily) Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge ь. unit to reduce vector attraction properties of sewage sludge: 4. Ground Water Monitoring. Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water a. monitoring data otherwise available for this active sewage sludge unit? \_\_\_Yes \_\_\_No If yes, provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data. Has a ground water monitoring program been prepared for this active sewage sludge unit? b. Yes \_\_\_No If yes, submit a copy of the ground water monitoring program with this application. Have you obtained a certification from a qualified ground water scientist that the aquifer below the active c. sewage sludge unit has not been contaminated? \_\_Yes \_\_No If yes, submit a copy of the certification with this application. 5. Site-Specific Limits. Are you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit? \_\_Yes \_\_No If yes, submit information to support the request for site-specific pollutant limits with this application.

**FACILITY NAME:** 

VPDES PERMIT NUMBER:

# VPDES NAGE SLUDGE PERMIT APPLIC ION FORM

# LAND APPLICATION AGREEMENT - BIOSOLIDS

A. This land application agreement is made on between referred here as "Landowner", and, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retaine the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If owners individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.					
Landowner: The Landowner is the owner	er of record of the real proper	ty located in d below in Table 1 and identifie	_, Virginia, which includes ed on the tax map(s) attached		
	Table 1.: Parcels autho	orized to receive biosolids			
Tax Parcel ID	<u>Tax Parcel ID</u>	Tax Parcel ID	Tax Parcel ID		
☐ Additional parcels containing Lan	d Application Sites are identified on	Supplement A (check if applicable)			
Check one: ☐ The	e Landowner is the sole owner E Landowner is one of multip	er of the properties identified he le owners of the properties iden	erein. Atified herein		
In the event that the Landov within 38 months of the late 1. Notify the purchase later than the date 2. Notify the Permittee	vner sells or transfers all or p st date of biosolids applicatio r or transferee of the applical of the property transfer; and of the sale within two weeks	art of the property to which bion, the Landowner shall: ble public access and crop mand following property transfer.	solids have been applied		
notify the Permittee immedi	ately if conditions change suc	ation on the fields identified he ch that the fields are no longer of d or the information herein cont	available to the Permittee for		
above and in Exhibit A. The	Landowner also grants perning or after land application of	ee to land apply biosolids on the nission for DEQ staff to conduc of biosolids for the purpose of d	et inspections on the land		
Landowner – Printed Name, Title	Signature	Mailing	y Address		
Permittee:					
VEDES Fermit Regulation and	in amounts not to exceed the ra	colids on the Landowner's land in tates identified in the nutrient mana 10.1-104.2 of the Code of Virginia	grement plan prepared for each		
The Permittee agrees to notify specifically prior to any particul applied.	the Landowner or the Landowner application to the Landowner	er's designee of the proposed sch 's land. Notice shall include the s	edule for land application and ource of residuals to be		
☐ I reviewed the documents as document available to DEQ for	signing signatory authority to th review upon request. (Do not ch	e person signing for landowner at eck this box if the landowner signs this	pove. I will make a copy of this sagreement)		
Permittee – Authorized Represen	tative Signature	Mailing	Address		

,	VPD SEWAGE SLUDGE PERMIT APPLICATION FORM
LAP	ND APPLICATION AGREEMENT - BIOSOLIDS
Peri	mittee: County or City:
Lan	downer:
Lan	downer Site Management Requirements:
gove	e Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations erning the land application of biosolids, the components of biosolids and proper handling and land application of olids.
resu	ve also been expressly advised by the Permittee that the site management requirements and site access rictions identified below must be complied with after biosolids have been applied on my property in order to ect public health, and that I am responsible for the implementation of these practices.
l agr appl	ee to implement the following site management practices at each site under my ownership following the land ication of biosolids at the site:
1.	Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2.	<ul> <li>Public Access</li> <li>a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.</li> <li>b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;</li> <li>c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.</li> </ul>
3.	<ul> <li>Crop Restrictions:</li> <li>a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.</li> <li>b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,</li> <li>c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.</li> <li>d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;</li> <li>e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).</li> </ul>
4.	Livestock Access Restrictions: Following biosolids application to pasture or hayland sites: a. Meat producing livestock shall not be grazed for 30 days, b. Lactating dairy animals shall not be grazed for a minimum of 60 days. c. Other animals shall be restricted from grazing for 30 days;
5.	Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6.	Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Date

# VPDL SEWAGE SLUDGE PERMIT APPLICATION FORM

# LAND APPLICATION AGREEMENT - BIOSOLIDS

# **Landowner Coordination Form**

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and each of the legal landowners of those tax parcels. A *Land Application Agreement – Biosolids* form, pages 1 and 2 with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:	
County or City:	
Please Print	(Signatures not required on this page)
Tax Parcel ID(s)	Landowner(s)

Rev 9/14/2012

Page \_\_\_of

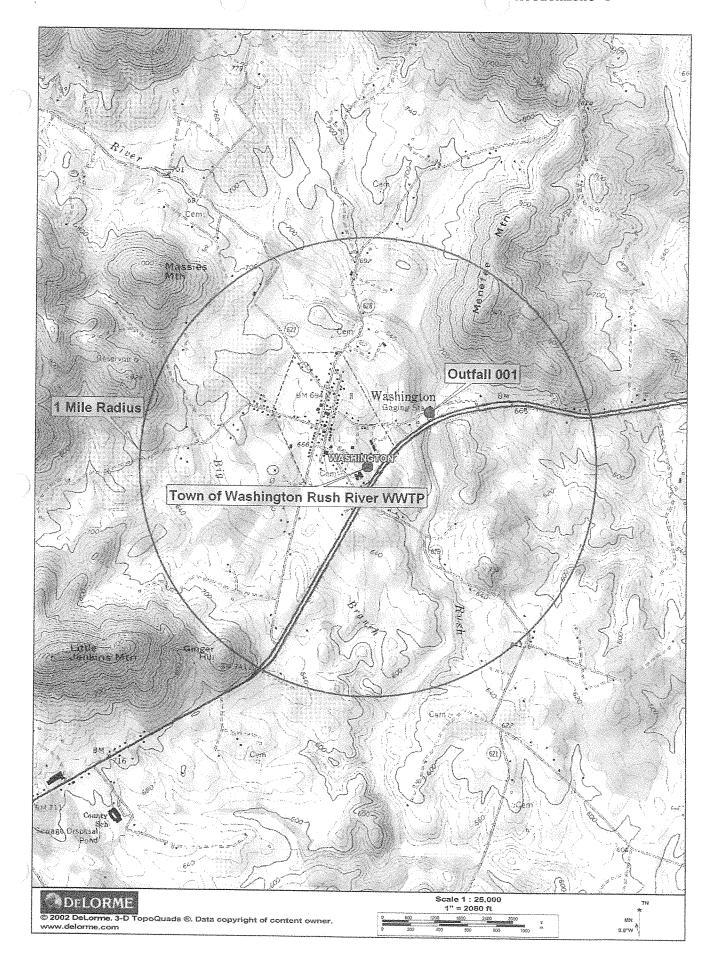
# VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

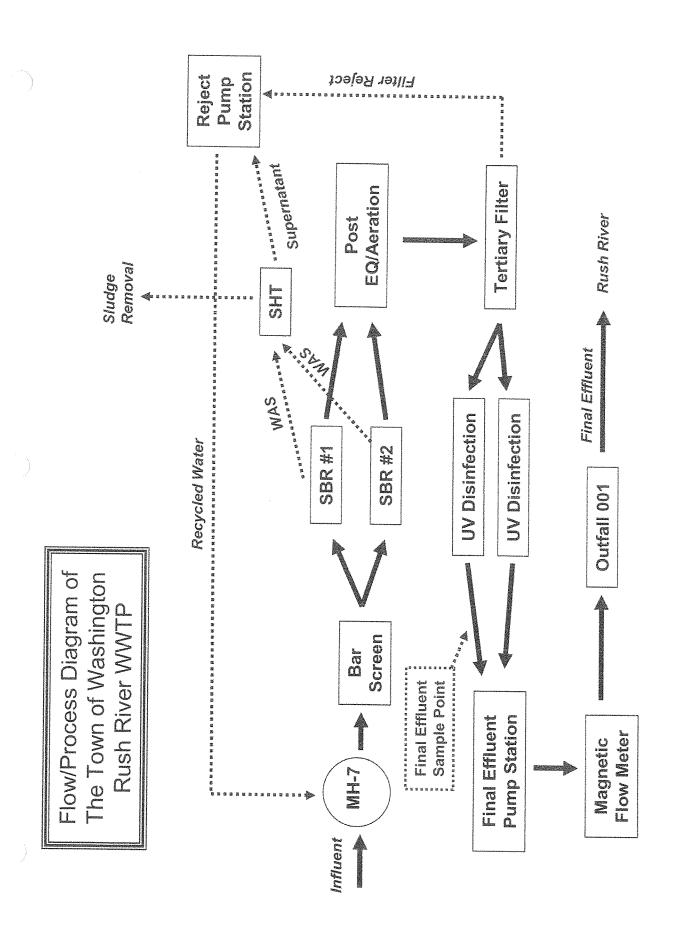
# LAND APPLICATION AGREEMENT - BIOSOLIDS

		City/County:							
Landowner:									
Supplement A: Addi	tional Land Application Sites	•							
Table 1 continued: Parcels authorized to receive biosolids.									
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID						
			-						
111111111111111111111111111111111111111									
			Market Control of the						
1000									
	***************************************		Maria de la compania						
1000		4444							
Part 1982		-							
12.81/2									
		-	100						
		1000							
	900 100 100 100 100 100 100 100 100 100								
owner – Printed Name	Signature								

Rev 9/14/2012

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FAUQUIER COUNTY WATER AND SANITATION AUTHORITY 7172 KENNEDY ROAD • WARRENTON, VA 20187 PHONE (540) 349-2092 • FAX (540) 347-7689 WEBSITE: fcwsa.org



December 10, 2015

Valeria Compton Environmental Systems Service, Ltd. 218 North Main St. P.O. Box 520 Culpeper, VA 22701

Reference: Rush River WWTP (VA0091651)

Town of Washington

Dear Valeria Compton,

This is to confirm that the Remington Wastewater Treatment Plant will continue to accept septage solids from the Town of Washington's Rush River WWTP, VA# 0091651.

If there are any questions please let me know.

Sincerely,

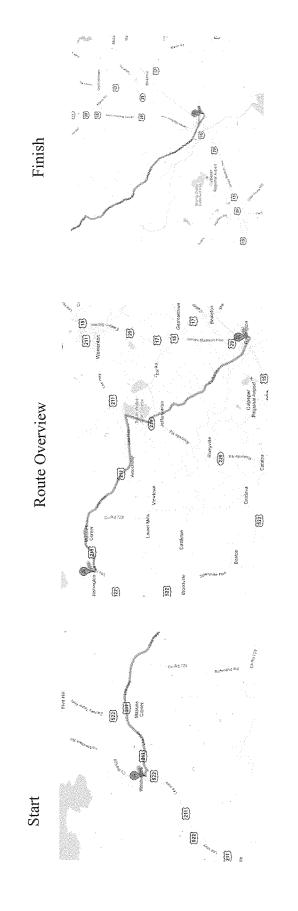
Cheryl St. Amant

Associate General Manager Operations

Cc: Remington WWTP

File

# Sludge Hauling Route From Rush River WWTP



12523 Lucky Hill Rd. Remington, VA 22734

Septage Hauler: Butler and Eicher 10607 James Madison Hwy Bealton, VA 22712 Phone: 540-347-2274

Washington, VA 22747

564 Warren Avenue

Remington WWTP
Cheryl St. Amant, Director of Operation
Phone: 540-439-2092
Receiving Facility VPDES #: VA0076805
Contact Hours 8:00-5:00 Monday -Friday

Rush River Wastewater Treatment Plant

VA0091651

**FORM** 2A

# NPDES FORM 2A APPLICATION OVERVIEW

**NPDES** 

# **APPLICATION OVERVIEW**

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

# **BASIC APPLICATION INFORMATION:**

- Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design В. flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- Certification. All applicants must complete Part C (Certification).

# SUPPLEMENTAL APPLICATION INFORMATION:

- Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to provide the information.
- Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
  - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
  - 2. Any other industrial user that:
    - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
    - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
    - c. Is designated as an SIU by the control authority.
- Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

# ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

<b>FACILITY NAME</b>	AND	PERMIT	NUMBER:
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Rush River Wastewater Treatment Plant VA0091651

Form Approved 1/14/99 OMB Number 2040-0086

# **BASIC APPLICATION INFORMATION**

PAF	RT A. BASIC APPL	ICATION INF	ORMATION FOR ALL	APPLICANTS:	
All t	reatment works mus	t complete ques	stions A.1 through A.8 of	this Basic Application Information pa	cket.
A.1.	Facility Information	1.			
	Facility name	Rush River V	/astewater Treatment P	lant	
	Mailing Address	485 Gay Stre	et. Washington, VA 227	47	
	Contact person	John Sullivan			
	Title	Mayor			
	Telephone number	(540) 675-31	28		
	Facility Address (not P.O. Box)	564 Warren A	ve. Washington, VA 22	747	
A.2.	Applicant Informati	on. If the applic	ant is different from the abo	ove, provide the following:	
	Applicant name	Environmenta	l Systems Service, Ltd		
	Mailing Address	218 North Ma	in Street, P.O. Box 520	Culpeper, VA 22701	
	Contact person	Donald F. He	ari		
	Title	Vice Presiden	t		
	Telephone number	(540) 825-666	80		
	Is the applicant the	owner or opera	tor (or both) of the treatn	nent works?	
	***************************************	espondence rea	- '	e directed to the facility or the applicant.	
	facility		_ applicant	e directed to the facility of the applicant.	
۹.3.	Existing Environme works (include state-i	ntal Permits. P ssued permits).	rovide the permit number o	of any existing environmental permits tha	t have been issued to the treatment
	NPDES <u>VA00916</u>	51		PSD	
	UIC			Othor	
	RCRA	*****		Other	
A.4.	Collection System In each entity and, if known etc.).	n <b>formation.</b> Pro own, provide info	ovide information on munici rmation on the type of colle	ipalities and areas served by the facility. ection system (combined vs. separate) a	Provide the name and population of nd its ownership (municipal, private,
	Name		Population Served	Type of Collection System	Ownership
	Town of Washingto	on	200+	Separate	Municiple
	Total pop	ulation served	200+		

**FACILITY NAME AND PERMIT NUMBER:** Form Approved 1/14/99 OMB Number 2040-0086 Rush River Wastewater Treatment Plant VA0091651 A.5. Indian Country. a. Is the treatment works located in Indian Country? b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country? A.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal. 0.06 mgd Design flow rate Two Years Ago Last Year This Year b. Annual average daily flow rate 0.017 0.017 0.017 mgd c. Maximum daily flow rate 0.049 0.030 0.038 mgd A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each. ✓ Separate sanitary sewer Combined storm and sanitary sewer A.8. Discharges and Other Disposal Methods. a. Does the treatment works discharge effluent to waters of the U.S.? If yes, list how many of each of the following types of discharge points the treatment works uses: i. Discharges of treated effluent ii. Discharges of untreated or partially treated effluent iii. Combined sewer overflow points iv. Constructed emergency overflows (prior to the headworks) v. Other Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? Yes If yes, provide the following for each surface impoundment: Location: Annual average daily volume discharged to surface impoundment(s) Is discharge \_\_\_\_\_ continuous or intermittent? c. Does the treatment works land-apply treated wastewater? Yes If yes, provide the following for each land application site: Location: Number of acres: Annual average daily volume applied to site: Is land application \_\_\_\_ continuous or intermittent?

treatment works?

d. Does the treatment works discharge or transport treated or untreated wastewater to another

Yes

FACILITY NAME AND PERMIT NUMBER:

Rush River Wastewater Treatment Plant VA0091651

Form Approved 1/14/99
OMB Number 2040-0086

If transport is by a par	other than the applicant, provide:			
Transporter name:				
Mailing Address:				
Contact person:				
Title:			111	
Telephone number:				
Name:				
Mailing Address:				
Contact person:				
Contact person:				
·				
Title: Telephone number:	PDES permit number of the treatment works tha			
Title: Telephone number: If known, provide the N		t receives this discharge.		mga
Title: Telephone number: If known, provide the N Provide the average da Does the treatment wo	PDES permit number of the treatment works tha	t receives this discharge. ceiving facility.	Yes	mga No
Title: Telephone number: If known, provide the N Provide the average da  Does the treatment wo A.8.a through A.8.d ab	PDES permit number of the treatment works that ly flow rate from the treatment works into the recess discharge or dispose of its wastewater in a m	t receives this discharge. ceiving facility.	Yes	mgo

Rush River Wastewater Treatment Plant

VA0091651

Form Approved 1/14/99 OMB Number 2040-0086

### **WASTEWATER DISCHARGES:**

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

J. L	escription of Outf	all.	
а	. Outfall number	001	
b	. Location	Town of Washington (City or town, if applicable) Rappahannock	22747 (Zip Code)
		(County) 38°43'19.32"N	VA (State)
		(Latitude)	78°09'48.40"W (Longitude)
C.	Distance from sh	ore (if applicable)	O ft.
d	. Depth below sur	face (if applicable)	0 ft.
e			***************************************
C.	. Average daily ilo	wrate	0.017 mgd
f.	Does this outfall periodic discharg	have either an intermittent or a e?	Yes
	If yes, provide th	e following information:	
	Number of times	per year discharge occurs:	
	Average duration	of each discharge:	
	Average flow per	discharge:	mgd
	Months in which	discharge occurs:	
g.	ls outfall equippe	d with a diffuser?	Yes
0. D	escription of Rece	iving Waters.	
a.	Name of receiving	g water Rush River	
b.	Name of watersh	ed (if known)	Rapidan Upper Rappahannock
	United States Soi	l Conservation Service 14-digit wate	ershed code (if known):
C.	Name of State Ma	anagement/River Basin (if known):	
	United States Ge	ological Survey 8-digit hydrologic ca	ataloging unit code (if known): 02080103
d.		f receiving stream (if applicable):	chronic cfs
			(if applicable): mg/l of CaCO <sub>3</sub>

Form Approved 1/14/99 OMB Number 2040-0086

A.11. De	escription of Treatment								
a.	What levels of treatme	nt are provided?	Check all th	at annly					
	Primary	n allo providou.	1	econdary					
	Advanced	_	1	ther. Describe:	Nitrification	on/Denitrifica	ition		
b.	Indicate the following re	emoval rates (as	applicable):						
	Design BOD <sub>s</sub> removal	or Design CBOD	o <sub>z</sub> removal		>9	0	%		
	Design SS removal				>9	0	<del></del> %		
	Design P removal				>9	0	%		
	Design N removal				>9	0	%		
	Other						%		
C.	What type of disinfection	n is used for the	e effluent fror	n this outfall? If d	 isinfection varie	es hy season		_	
	UV Disinfection					or by course,	produce decerring	<b>.</b>	
	If disinfection is by chlo	rination, is dech	lorination use	ed for this outfall?	)	γ	′es	<b>/</b>	No
d.	Does the treatment pla	nt have post aer	ation?				 ′es		No
						,			
dis col of At	fluent Testing Informati rameters. Provide the inscharged. Do not included the through analysi 40 CFR Part 136 and ot a minimum, effluent testifall number:	idicated effice le information s conducted us her appropriate	nt testing re on combine sing 40 CFR e OA/OC red	quired by the pe d sewer overflo Part 136 metho- uirements for s	ermitting authoms in this sections in this section in addition is and architecture.	ority <u>for each</u> tion. All infor n, this data m	outfall through mation reported oust comply with	h whi ed mu th QA	ich effluent is ist be based on d VQC requiremen
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FACILITY NAME AND PERMIT NUMBER:

Rush River Wastewater Treatment Plant VA0091651

N/A

Form Approved 1/14/99 OMB Number 2040-0086

# BASIC ADDITION INCORNATION

U)	ASIC APPLICATION INFORMATION
PA	RT B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
All	applicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
	. Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. gpd
	Briefly explain any steps underway or planned to minimize inflow and infiltration.
B.2.	<b>Topographic Map.</b> Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)
	a. The area surrounding the treatment plant, including all unit processes.
	b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	c. Each well where wastewater from the treatment plant is injected underground.
	d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
B.3.	Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.
	Operation/Maintenance Performed by Contractor(s).
	Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?YesNo
	If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).
	Name:
	Mailing Address:
	Telephone Number:
	Responsibilities of Contractor:
	Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.5.)
i	a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
ł	o. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.
	YesNo

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С	If the answer to B.	5.b is "Yes," brie	efly describe, incl	luding new max	imum daily inflov	v rate (if applicab	le).	
d.	Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, applicable. Indicate dates as accurately as possible.							
	Implementation Stage		Schedule	Schedule Act		on		
			MM / DD /	YYYY	MM / DD / YYYY			
	<ul> <li>Begin construction</li> </ul>	on						
	- End construction		//		//			
	<ul> <li>Begin discharge</li> </ul>		//					
	<ul> <li>Attain operations</li> </ul>	l level		*****************				
e.	Have appropriate p	permits/clearanc	es concerning of	ther Federal/Sta	ate requirements	been obtained?	Yes	No
	Describe briefly:							
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Apples over the star policy of t	plicants that discharting required by the erflows in this sectio thods. In addition, the number of the properties of the	ge to waters of t permitting authon. All information his data must conalytes not add ist be no more the MAXIMU DISCI	the US must provority for each out on reported must omply with QA/Q ressed by 40 CF nan four and one UM DAILY HARGE Units	vide effluent tes fall through whi be based on d: C requirements R Part 136. At -half years old.  AVERA	ch effluent is disc ata collected thro of 40 CFR Part a minimum, efflu N/A	charged. Do not ugh analysis con 136 and other appent testing data in the charge of th	include information o ducted using 40 CFR ipropriate QA/QC req must be based on at	n combined set Part 136 uirements for least three
Apples Solving RATE ROGE and G	plicants that discharting required by the erflows in this sectio thods. In addition, the number of the properties of the	ge to waters of t permitting authon. All information his data must conalytes not add ist be no more the MAXIMU DISCI	the US must provority for each out on reported must omply with QA/Q ressed by 40 CF nan four and one UM DAILY HARGE Units	vide effluent tes fall through whi be based on d: C requirements R Part 136. At -half years old.  AVERA	ch effluent is disc ata collected thro of 40 CFR Part a minimum, efflu N/A	charged. Do not ugh analysis con 136 and other appent testing data in the charge of th	include information o ducted using 40 CFR ipropriate QA/QC req must be based on at	n combined set Part 136 uirements for least three

FACILITY NAME AND PERM			Form Approved 1/14/99
Rush River Wastewater Tre	eatment Plant VA	0091651	OMB Number 2040-0086
BASIC APPLICATION	ON INFORMAT	TION	
PART C. CERTIFICATION	l		
approduct must complete an a	itting. By signing this o	offication statement, applican	nine who is an officer for the purposes of this certification. All blication Overview. Indicate below which parts of Form 2A you ts confirm that they have reviewed Form 2A and have completed
Indicate which parts of Form	n 2A you have comple	eted and are submitting:	
Basic Application	Information packet	Supplemental Application In	formation packet:
		Part D (Expanded E	Effluent Testing Data)
		Part E (Toxicity Tes	ting: Biomonitoring Data)
			er Discharges and RCRA/CERCLA Wastes)
		Part G (Combined S	Sewer Systems)
ALL APPLICANTS MUST CO	MPLETE THE FOLLO	WING CERTIFICATION.	
who manage the system or tho	ese persons directly resplete. I am aware that	painer and evaluate the informa	nder my direction or supervision in accordance with a system tion submitted. Based on my inquiry of the person or persons mation, the information is, to the best of my knowledge and or submitting false information, including the possibility of fine
Name and official titleJohr	n Sullivan, Mayor 🕦	<u> </u>	
Signature	- HANYSON	J WW	
Telephone number (540	) 675-3128		
Date signed	W/15		
Upon request of the permitting works or identify appropriate pe	authority, you must sul ermitting requirements.	omit any other information nece	ssary to assess wastewater treatment practices at the treatment

SEND COMPLETED FORMS TO:

Rush River Wastewater Treatment Plant

VA0091651

N/A

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# SUPPLEMENTAL APPLICATION INFORMATION

# PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number:	(Coi	nplete (	once for	each out	tfall disch	arging e	effluent to	o waters	of the Unite	ed States.)	
POLLUTANT	1	JAXIMU DISCI	JM DAIL HARGE	Υ			E DAILY			ANALYTICAL METHOD	ML/ MDL
	Conc.		Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
METALS (TOTAL RECOVERABLE),	CYANIDE,	PHENO	LS, AND	HARDNE	SS.				Campico		The state of the s
ANTIMONY											
ARSENIC						<u> </u>					
BERYLLIUM											
CADMIUM											
CHROMIUM											
COPPER											
LEAD											
MERCURY											
NICKEL											
SELENIUM											
BILVER											
THALLIUM											
ZINC											
CYANIDE											
OTAL PHENOLIC COMPOUNDS											
HARDNESS (AS CaCO <sub>3</sub> )										***************************************	11 THE TOTAL STATE OF
Ise this space (or a separate sheet) to	provide inf	ormation	on other	metals re	quested by	y the peri	nit writer.				
						Ī		T	I		

Rush River Wastewater Treatment Plant

VA0091651

N/A

Outfall number:	(Comp	lete ond	e for eac	ch outfall	dischar	ging effli	uent to w	aters of	the United	States.)	
POLLUTANT	1	JMIXAN	JM DAIL' HARGE	Y	A'	VERAGI	E DAILY	DISCHA	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
VOLATILE ORGANIC COMPOUNDS.	7				<u> </u>				Campies		
ACROLEIN											
ACRYLONITRILE											
BENZENE											
BROMOFORM											
CARBON TETRACHLORIDE											
CLOROBENZENE											
CHLORODIBROMO-METHANE											
CHLOROETHANE											
2-CHLORO-ETHYLVINYL ETHER											
CHLOROFORM											
DICHLOROBROMO-METHANE											
1,1-DICHLOROETHANE										-11111111111111111111111111111111111111	
1,2-DICHLOROETHANE											
FRANS-1,2-DICHLORO-ETHYLENE											
1,1-DICHLOROETHYLENE											
I,2-DICHLOROPROPANE											
,3-DICHLORO-PROPYLENE											
THYLBENZENE											
METHYL BROMIDE											1//
METHYL CHLORIDE											
METHYLENE CHLORIDE											
,1,2,2-TETRACHLORO-ETHANE											
ETRACHLORO-ETHYLENE											
OLUENE											

Rush River Wastewater Treatment Plant VA0091651

N/A

Outfall number:	(Com	(Complete once for each outfall discharging effluent to waters of the United States.)										
POLLUTANT		MAXIMU	UM DAIL HARGE	. <del>Y</del>	(A)	VERAGI	E DAILY	DISCH,	ARGE			
	Conc.			Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL	
1,1,1-TRICHLOROETHANE												
1,1,2-TRICHLOROETHANE												
TRICHLORETHYLENE												
VINYL CHLORIDE												
Use this space (or a separate sheet) to	o provide in	nformatio	n on other	r volatile o	organic cor	mpounds	requeste	d by the r	permit writer.			
ACID-EXTRACTABLE COMPOUNDS	s											
P-CHLORO-M-CRESOL		T									T	
2-CHLOROPHENOL												
2,4-DICHLOROPHENOL												
2,4-DIMETHYLPHENOL	+										<del> </del>	
4,6-DINITRO-O-CRESOL												
2,4-DINITROPHENOL												
2-NITROPHENOL												
4-NITROPHENOL												
PENTACHLOROPHENOL												
PHENOL												
2,4,6-TRICHLOROPHENOL												
Use this space (or a separate sheet) to	provide in	iformation	on other	acid-extra	actable cor	mpounds	requeste	d by the p	permit writer.			
The state of the s												
BASE-NEUTRAL COMPOUNDS.	T	т	Г Т							750700		
ACENAPHTHENE												
ACENAPHTHYLENE												
ANTHRACENE												
BENZIDINE												
BENZO(A)ANTHRACENE												
BENZO(A)PYRENE												

Rush River Wastewater Treatment Plant

VA0091651

N/A

Outfall number:	_ (Comp	lete ond	e for ea	ch outfal	l dischar	ging effli	uent to v	vaters of	the United	States.)	
POLLUTANT	1	MAXIMU	JM DAIL HARGE	Y	A'	/ERAGI	DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE									Camples		
BENZO(GHI)PERYLENE											
BENZO(K)FLUORANTHENE											
BIS (2-CHLOROETHOXY) METHANE											
BIS (2-CHLOROETHYL)-ETHER											
BIS (2-CHLOROISO-PROPYL) ETHER											
BIS (2-ETHYLHEXYL) PHTHALATE											
4-BROMOPHENYL PHENYL ETHER											
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE											
4-CHLORPHENYL PHENYL ETHER											
CHRYSENE											
DI-N-BUTYL PHTHALATE											
DI-N-OCTYL PHTHALATE										1-20-1-	
DIBENZO(A,H) ANTHRACENE										~	
1,2-DICHLOROBENZENE											
1,3-DICHLOROBENZENE											
1,4-DICHLOROBENZENE									·		
3,3-DICHLOROBENZIDINE											
DIETHYL PHTHALATE						The state of the s					****
DIMETHYL PHTHALATE											
2,4-DINITROTOLUENE											
2,6-DINITROTOLUENE											·
1,2-DIPHENYLHYDRAZINE											

<b>FACILITY</b>	ALA BEE	AND	DEDBAIT	NUMBER:
FACILITY	NAME	ANU	PERMI	MIIMBEK.

Rush River Wastewater Treatment Plant

VA0091651

N/A

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Outfall number:POLLUTANT	MAXIMUM DAILY DISCHARGE				discharging effluent to waters of the United  AVERAGE DAILY DISCHARGE					nates.)	
	Conc.	Units		Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
FLUORANTHENE						-					1991
FLUORENE											
HEXACHLOROBENZENE											
HEXACHLOROBUTADIENE											All
HEXACHLOROCYCLO- PENTADIENE											***************************************
HEXACHLOROETHANE											
INDENO(1,2,3-CD)PYRENE											WALL STREET
ISOPHORONE											
NAPHTHALENE											MONTH OF THE PARTY
NITROBENZENE											
N-NITROSODI-N-PROPYLAMINE											
N-NITROSODI- METHYLAMINE											
N-NITROSODI-PHENYLAMINE											
PHENANTHRENE											
PYRENE											
1,2,4-TRICHLOROBENZENE											
Use this space (or a separate sheet) to	provide inf	ormation	on other	base-neu	tral compo	ounds red	uested by	y the pen	mit writer.	ı İ	
									***************************************		
Use this space (or a separate sheet) to	provide inf	ormation	on other	pollutants	(e.g., pes	ticides) r	equested	by the pe	ermit writer.		
						I	1				

END OF PART D.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Rush River Wastewater Treatment Plant

N/A

Form Approved 1/14/99 OMB Number 2040-0086

# SUPPLEMENTAL APPLICATION INFORMATION

VA0091651

### PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgg; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.
   If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

complete.	·	Producti Cactalem for directions on Mi	ich other sections of the form to
E.1. Required Tests.			
Indicate the number of whole efflue	nt toxicity tests conducted in the pas	t four and one-half years.	
chronicacute	è		
E.2. Individual Test Data. Complete th column per test (where each specie	e following chart for each whole efflues constitutes a test). Copy this page	uent toxicity test conducted in the last the interior in the last	our and one-half years. Allow one
	Test number:		Test number:
a. Test information.			
Test species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			
b. Give toxicity test methods follower	ed.		
Manual title			
Edition number and year of publication			
Page number(s)			
c. Give the sample collection metho	od(s) used. For multiple grab sample	es, indicate the number of grab sample	es used.
24-Hour composite			
Grab			
d. Indicate where the sample was ta	aken in relation to disinfection. (Chec	k all that apply for each)	
Before disinfection			
After disinfection			
After dechlorination			

FACILITY NAME AND PERMIT NUMBER:		Form Approved 1/14/99
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	Test number:	Test number:	Test number:
e. Describe the point in the treatme	ent process at which the sample wa		
Sample was collected:			
f. For each test, include whether the	e test was intended to assess chror	nic toxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test performe	ed.		
Static			
Static-renewal			
Flow-through			
h. Source of dilution water. If labora	atory water, specify type; if receiving	g water, specify source.	
Laboratory water			
Receiving water			
i. Type of dilution water. It salt wate	er, specify "natural" or type of artifici	al sea salts or brine used.	
Fresh water			
Salt water			
j. Give the percentage effluent used	for all concentrations in the test se	ries.	
k. Parameters measured during the	test. (State whether parameter mee	ets test method specifications)	
рН			
Salinity			
Temperature			
Ammonia			
Dissolved oxygen			
I. Test Results.			1
Acute:			
Percent survival in 100% effluent	%	%	%
LC <sub>50</sub>			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			
DA Form 2510 24 (Day 1 00) Dayles - 5			

FACILITY NAME AND PERMIT NUMBER Rush River Wastewater Treatment Pla			Form Approved 1/14/99 OMB Number 2040-0086	
Chronic:				
NOEC	%	%	9/	
IC <sub>25</sub>	%	%	%	
Control percent survival	%	%	%	
Other (describe)				
m. Quality Control/Quality Assuran	ce.			
Is reference toxicant data available?				
Was reference toxicant test within acceptable bounds?				
What date was reference toxicant test run (MM/DD/YYYY)?				
Other (describe)		//		
E.3. Toxicity Reduction Evaluation. Is t	dan est e	city Reduction Evaluation?		
E.4. Summary of Submitted Biomonitor cause of toxicity, within the past four summary of the results.	ing Test Information. If you have so and one-half years, provide the dates	ubmitted biomonitoring test informati s the information was submitted to th	on, or information regarding the e permitting authority and a	
Date submitted:	(MM/DD/YYYY)			
Summary of results: (see instruction	s)			
DEEED TO THE ADDITION	END OF PAI	RT E.		

END OF PART E.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE.

Rush River Wastewater Treatment Plant VA0091651

N/A

Form Approved 1/14/99 OMB Number 2040-0086

# SUPPLEMENTAL APPLICATION INFORMATION

### PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All to	reatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must plete Part F.
GE	NERAL INFORMATION:
F.1.	Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?
	YesNo
F.2.	Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.
	a. Number of non-categorical SIUs.
	b. Number of CIUs.
SIG	NIFICANT INDUSTRIAL USER INFORMATION:
Supp and	oly the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 provide the information requested for each SIU.
F.3.	Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.
	Name:
	Mailing Address:
F.4.	Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
F.5.	Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):
	Raw material(s):
F.6.	Flow Rate.
	Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous orintermittent)
	gpd (continuous ofintermittent)
	<ul> <li>Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.</li> </ul>
	gpd (continuous orintermittent)
F.7.	Pretreatment Standards. Indicate whether the SIU is subject to the following:
	a. Local limitsYesNo
	b. Categorical pretreatment standardsYesNo
	If subject to categorical pretreatment standards, which category and subcategory?

	OMB Number 2040-0086
F.8. Problems at the Treatment Works Attributed to Waste Discharged by the upsets, interference) at the treatment works in the past three years?	he SIU. Has the SIU caused or contributed to any problems (e.g.,
YesNo If yes, describe each episode.	
RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDI	CATED PIPELINE:
F.9. RCRA Waste. Does the treatment works receive or has it in the past three pipe?YesNo (go to F.12.)	years received RCRA hazardous waste by truck, rail, or dedicated
F.10. Waste Transport. Method by which RCRA waste is received (check all that	at apply):
TruckRailDedicated Pipe	
F.11. Waste Description. Give EPA hazardous waste number and amount (volu EPA Hazardous Waste Number Amount	
EPA Hazardous Waste Number Amount	<u>Units</u>
CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/COR ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTE	RECTIVE
F.12. Remediation Waste. Does the treatment works currently (or has it been no	
Yes (complete F.13 through F.15.) No	offined that it will) receive waste from remedial activities?
Provide a list of sites and the requested information (F.13 - F.15.) for each of	Current and future cite
F.13. Waste Origin. Describe the site and type of facility at which the CERCLA/F in the next five years).	RCRA/or other remedial waste originates (or is expected to origina
F.14. Pollutants. List the hazardous constituents that are received (or are expect known. (Attach additional sheets if necessary).	ted to be received). Include data on volume and concentration, if
F.15. Waste Treatment.	
a. Is this waste treated (or will it be treated) prior to entering the treatment	works?
YesNo	
If yes, describe the treatment (provide information about the removal effi	iciency);
	.,
b. Is the discharge (or will the discharge be) continuous or intermittent?	
ContinuousIntermittent If intermittent, de	escribe discharge schedule.
END OF PAR	T F.
REFER TO THE APPLICATION OVERVIEW TO DETI	ERMINE WHICH OTHER PARTS OF FORI

2A YOU MUST COMPLETE

Rush River Wastewater Treatment Plant

VA0091651

N/A

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# SUPPLEMENTAL APPLICATION INFORMATION

# PART G. COMBINED SEWER SYSTEMS

If the treatment works has a combined sewer system, complete Part G.

- G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information)
  - a. All CSO discharge points.
  - b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
  - c. Waters that support threatened and endangered species potentially affected by CSOs.
- G.2. System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information:
  - a. Locations of major sewer trunk lines, both combined and separate sanitary.
  - b. Locations of points where separate sanitary sewers feed into the combined sewer system.
  - c. Locations of in-line and off-line storage structures.
  - d. Locations of flow-regulating devices.
  - e. Locations of pump stations.

CS	00	UTFALLS:				
Cor	nple	te questions G.3 throug	ih G.6 once <u>for each CSO discharge point.</u>			
		scription of Outfall.				0,000
	_	0.46-11				
	a.	Outfall number				
	b.	Location				
			(City or town, if applicable)		(Zip Code)	
			(County)			
			(County)		(State)	
			(Latitude)		(Longitude)	
					(2011g)(200)	
	C.	Distance from shore (if	applicable)	ft.		
	d.	Depth below surface (if	applicable)	ft.		
	e.	Which of the following w	vere monitored during the last year for this CS	0?		
		Rainfall	CSO pollutant concentrations	CSC framus as		
		CSO flow volume	Receiving water quality	CSO frequency	у	
			Nobelving water quanty			
	f.	How many storm events	s were monitored during the last year?			
G.4.	csc	) Events.				
	a.	Give the number of CSC	Devents in the last year.			
			_ actual or approx.)			
	b.	Give the average duration	on per CSO event.			
		hours (	actual or approx.)			

approx.)

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Rush River Wastewater Treatment Plant VA0091651 c. Give the average volume per CSO event. \_\_\_ million gallons (\_\_\_\_\_ actual or \_\_\_\_ approx.) d. Give the minimum rainfall that caused a CSO event in the last year. \_ inches of rainfall G.5. Description of Receiving Waters. a. Name of receiving water: \_\_\_ b. Name of watershed/river/stream system:\_\_\_\_ United States Soil Conservation Service 14-digit watershed code (if known): c. Name of State Management/River Basin: United States Geological Survey 8-digit hydrologic cataloging unit code (if known): G.6. CSO Operations. Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water END OF PART G. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

Additional information, if provided, will appear on the following pages.